RAYTHEON

TECHNICAL INFORMATION SERVICE

Technical Information

CK6999

SUBMINIATURE PENTODE

The CK6999 is a filament type pentode of subminiature construction designed for service as a power amplifier in wearable and portable equipment. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

ELECTRICAL DATA

RATINGS – ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)	1.32/2.64 ± 20 %	volts
Plate Voltage	145	volts
Grid #2 Voltage	95	volts
Total Cathode Current	7	ma.
Plate Dissipation	0.75	watts
Grid #2 Dissipation	0.12	watts

CHARACTERISTICS AND TYPICAL OPERATION:

Filament Voltage (dc) ▲	2.64	volts
Filament Current	50	ma.
Plate Voltage	67.5	volts
Grid #2 Voltage	67.5	volts
Grid #1 Voltage	–4.0	volts
Plate Current	4.0	ma.
Grid #2 Current	0.9	ma.
Transconductance	1650	μmhos
Load Resistance	12	kilohms
Distortion (approx.)	11.5	percent
Power Output	135	mw.
Peak AF Signal Voltage	4.0	volts

▲ *A resistor of 680 ohms is connected in parallel with leads 2 and center tap lead 4.*

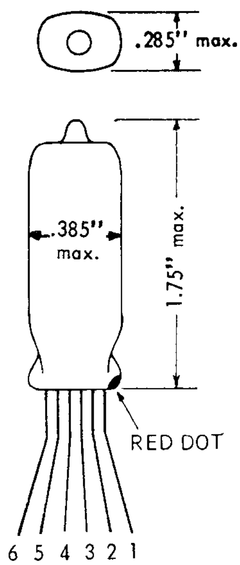
* *Grid #3 is composed of two deflector plates, one being connected to lead 2 and the other to lead 6.*

MECHANICAL DATA

ENVELOPE ....T–2X3 Glass

BASE ..... None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.048" center-to-center)

PHYSICAL DIMENSIONS



TERMINAL CONNECTIONS

Lead 1 Plate
Lead 2 Filament negative, Grid #3 *
Lead 3 Grid #2
Lead 4 Filament center-tap (F-parallel) ▲
Lead 5 Grid #1
Lead 6 Filament positive, Grid #3 *